



1644

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of: Charles Maliszewski, Richard Gayle III,
Virginia Lee Price and Steven D. Gimpel
Docket No.: 2879-US
Group Art Unit: 1644
Serial No: 09/835,147
Examiner: A. Decloux
Filed: April 13, 2001
For: INHIBITORS OF PLATELET ACTIVATION AND RECRUITMENT

#12
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Please acknowledge receipt of this Information Disclosure Statement, and make the cited documents of record in the above identified application. Applicants believe that this Information Disclosure Statement is being submitted before mailing of a first Office Action on the merits, and that no fee is due with the filing of this paper. If a fee is due, the Commissioner is authorized to charge the fee to Deposit Account No. 09-0089.

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Respectfully submitted,

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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

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Camilla C. Edwards

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2879-US

SERIAL NO.

09/835,147

INFORMATION DISCLOSURE CITATION

APPLICANT

Charles Maliszewski et al.

FILING DATE

April 13, 2001

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U.S. PATENT DOCUMENTS

EXAMINER	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5,073,627	12/17/91	Curtis et al.			
	5,378,601	1/3/95	Gepner-Puszkin			
	5,506,126	4/9/96	Seed et al.			
	5,798,241	8/25/98	Beaudoin et al			
	6,287,837	9/11/01	Beaudoin et al.			

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FOREIGN PATENT DOCUMENTS

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WO 96/32471	10/17/96	PCT			
WO 96/30532	10/3/96	PCT			
WO 00/23094	4/27/00	PCT			
WO 01/11949	2/22/01	PCT			
EP 0 416 673 A1	3/13/91	EP			

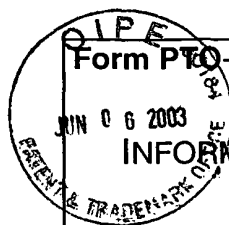
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Chadwick, B. P. and Frischauf, A., "The CD39-like gene family: identification of three new human members (CD39L2, CD39L3, and CD39L4), their murine homologues, and a member of the gene family from drosophila melanogaster," <i>Genomics, U.S Academic Press, San Diego Vol. 50(3): 357-367, 1998.</i>
	Choudhri, T. et al., "Reduced microvascular thrombosis and improved outcome in acute murine stroke by inhibiting GP IIb /IIIa receptor-mediated platelet aggregation," <i>J. Clin. Invest. 102(7): 1301-1310, 1998.</i>
	Colman, R. et al., "Inhibition of collagen-induced platelet activation by 5'-p-fluorosulfonylbenzoyl adenosine: evidence for an adenosine diphosphate requirement and synergistic influence of prostaglandin endoperoxides," <i>Blood 68(2): 565-570, 1986.</i>
	Connolly, E. et al., "Cerebral protection in homozygous null ICAM-1 mice after middle cerebral artery occlusion," <i>J. Clin Invest 97(1): 209-216, 1996.</i>

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DATE CONSIDERED

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Connolly, E. et al., "Procedural and strain-related variables significantly affect outcome in a murine model of focal cerebral ischemia," <i>Neurosurgery</i> 38(3): 523-532, 1996.
	Cullen, B., "Expression of a cloned human interleukin -2 cDNA is enhanced by the substitution of a heterologous mRNA leader region," <i>DNA</i> 7(9): 645-650, 1988.
	Gayle, R., et al., "Inhibition of platelet function by recombinant soluble ecto-ADPase/CD39," <i>J. Clin. Invest.</i> 101(9): 1851-1859, 1998.
	Handa, M. and Guidotti, G., "Purification and cloning of a soluble ATP-diphosphohydrolase (Apyrase) from potato tubers (<i>Solanum tuberosum</i>)," <i>Biochem. Biophys. Res. Comm.</i> 218: 916-923, 1996.
	Kaczmarek, E. et al., "Identification and characterization of CD39/vascular ATP diphosphohydrolase," <i>J. Biol. Chem.</i> 271(51): 33116-33122, 1996.

EXAMINER

DATE CONSIDERED

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FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Kansas, G. and Tedder, T., "Transmembrane signals generated through MHC class II, CD19, CD20, CD39, and CD40 antigens induce LFA-1-dependent and independent adhesion in human B cells through a tyrosine kinase-dependent pathway," <i>J. Immunol.</i> 147 (12): 4094-4102, 1991.
	Maliszewski, C. et al., "The CD39 lymphoid cell activation antigen," <i>J. Immunol.</i> 153: 3574-3583, 1994.
	Marcus, A. and Safier, L., "Thromboregulation: multicellular modulation of platelet reactivity in hemostasis and thrombosis," <i>FASEB J.</i> 7: 516-522, 1993.
	Marcus, A. et al., "The endothelial cell ecto-ADPase responsible for inhibition of platelet function is CD39," <i>J. Clin. Invest.</i> 99(6): 1351-1360, 1997.
	Marcus, A. et al., "Thromboregulatory activity of cultured human endothelial cells: subcellular localization and solubilization of a membrane ADPase," <i>Clin. Res.</i> 40: 226A (abstract), 1992.

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Marcus, A. et al., "Inhibition of platelet function by an aspirin-insensitive endothelial cell ADPase," <i>J. Clin. Invest.</i> 88: 1690-1696, 1991.
		Mulero, J. et al., "CD39-L4 is a secreted human apyrase, specific for the hydrolysis of nucleoside diphosphates," <i>J. Biol. Chem.</i> 274(29): 20064-20067, 1999.
		Plesner, L., "Ecto-ATPases: Identities and functions," <i>Int. Rev. Cytol.</i> 158: 141-214, 1995.
		Rector, E. et al., "Detection and characterization of monoclonal antibodies specific to IgE receptors on human lymphocytes by flow cytometry," <i>Immunology</i> 55: 481-488, 1985.
		Ronaghi, M. et al., "A sequencing method based on real-time pyrophosphate," <i>Science</i> 281: 363-365, 1998.
		Schoenborn, M. et al., "Gene structure and chromosome location of mouse Cd39 coding for an ecto-apyrase," <i>Cytogenet Cell Genet</i> 81: 287-289, 1998.

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	Sevigny, J. et al., "Purification of the blood vessel ATP diphosphohydrolase, identification and localisation by immunological techniques," <i>Biochim. Biophys. Acta</i> 1334: 73-88, 1997.
	Sevigny, J. et al., "Purification of pancreas type-I ATP diphosphohydrolase and identification by affinity labelling with the 5'-p- fluorosulphonylbenzoyl adenosine ATP analogue," <i>Biochem J.</i> 312: 351-356, 1995.
	Wang, T., and Guidotti, G., "Cd39 is an ecto-(Ca ²⁺ , Mg ²⁺)-apyrase," <i>J. Biol. Chem</i> 271(17): 9898-9901, 1996.
	Wang, T., et al., "The transmembrane domains of ectoapyrase (CD39) affect its enzymatic activity and quaternary structure," <i>J. Biol. Chem.</i> 273(38): 24814-24821, 1998.

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